Refine Search

Search Results -

Terms	Documents
L17 and @pd > 20060812	0

Database:

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search: L18

[Refine Search]

[Recall Text] [Clear] [Interrupt]

Search History

DATE: Thursday, November 30, 2006   <u>Purge Queries</u>   <u>Printable Copy</u>   <u>Create Case</u>

Set Name side by side	Query	Hit Count	Set Name result set
	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ		
L18	L17 and @pd > 20060812	0	L18
L17	707/$.ccls. and ((member or new adj member same initializ$) and (synchronous or asynchronous same data) and (replic$ same group near3 database)and (load$ same data))	10	L17
L16	707/$.ccls. and ((member or new adj member same initializ$) and (synchronous or asynchronous same data) and (replic$ same group near3 database))	20	L16
L15	((member or new adj member same initializ$) and (synchronous or asynchronous same data) and (replic$ same group near3 database)).clm.	1	L15
L14	((member or new adj member same initializ$) and (synchronous or asynchronous same data) and (replic$ same group near3 database)).ab.	2	L14
L13	((member or new adj member same initializ$) and (synchronous or asynchronous same data) and (replic$ same group near3 database)).ti.	0	L13
L12	L11 and L6	1	L12
	(member or new adj member same initializ$) and (synchronous or asynchronous		

L11	same data) and (replic$ same group near3 database)	30	L11
L10	707/$.ccls. and ((((subscription$ or subscrib$) same (add$ or insert$) same (member$ or group$)) and (send$ or transmit$ or replicat$ or distribut$ or synchroniz$ or asynchroniz$) and (activat$ or deactiv$) and (send$ same list$ same subscription with information)and (validat$ with initiator or agent) and (determin$3 same acknowledgement or receiv$)))	2	L10
L9	(((subscription$ or subscrib$) same (add$ or insert$) same (member$ or group$)) and (send$ or transmit$ or replicat$ or distribut$ or synchroniz$ or asynchroniz$) and (activat$ or deactiv$) and (send$ same list$ same subscription with information)and (validat$ with initiator or agent) and (determin$3 same acknowledgement or receiv$))	9	L9
L8	(((subscription$ or subscrib$) same (add$ or insert$) same (member$ or group$)) and (send$ or transmit$ or replicat$ or distribut$ or synchroniz$ or asynchroniz$) and (activat$ or deactiv$) and (send$ same list$ same subscription with information)and (validat$ with initiator or agent))	9	L8
L7	(((subscription$ or subscrib$) same (add$ or insert$) same (member$ or group$)) and (send$ or transmit$ or replicat$ or distribut$ or synchroniz$ or asynchroniz$) and (activat$ or deactiv$) and (send$ same list$ same subscription with information))	12	L7
L6	(((subscription$ or subscrib$) same (add$ or insert$) same (member$ or group$)) and (send$ or transmit$ or replicat$ or distribut$ or synchroniz$ or asynchroniz$) and (activat$ or deactiv$) and (send$ same list$))	416	L6
L5	L4 and L3	0	L5
L4	(((subscription$ or subscrib$) same (add$ or insert$) same (member$ or group$)) and (send$ or transmit$ or replicat$ or distribut$ or synchroniz$ or asynchroniz$) and (activat$ or deactiv$)).clm.	26	L4
L3	(((subscription$ or subscrib$) same (add$ or insert$) same (member$ or group$)) and (send$ or transmit$ or replicat$ or distribut$ or synchroniz$ or asynchroniz$) and (activat$ or deactiv$)).ab.	7	L3
L2	(((subscription$ or subscrib$) same (add$ or insert$) same (member$ or group$)) and (send$ or transmit$ or replicat$ or distribut$ or synchroniz$ or asynchroniz$) and (activat$ or deactiv$)).ti.	0	L2
L1	((subscription$ or subscrib$) same (add$ or insert$) same (member$ or group$)) and (send$ or transmit$ or replicat$ or distribut$ or synchroniz$ or asynchroniz$) and (activat$ or deactiv$)	1216	L1

END OF SEARCH HISTORY

Hit List

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Your result set for the last L# is incomplete.
The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs |

| Generate OACS |

Search Results - Record(s) 1 through 9 of 9 returned.

☐ 1. Document ID: US 20060161554 A1

Using default format because multiple data bases are involved.

L8: Entry 1 of 9   File: PGPB   Jul 20, 2006

PGPUB-DOCUMENT-NUMBER: 20060161554
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20060161554 A1

TITLE: Schema-Based Services For Identity-Based Data Access

PUBLICATION-DATE: July 20, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Lucovsky; Mark H.	Sammamish	WA	US
Pierce; Shaun Douglas	Sammamish	WA	US
Movva; Ramu	Issaquah	WA	US
Kalki; Jagadeesh	Redmond	WA	US
Auerbach; David Benjamin	Seattle	WA	US
Ford; Peter Sewall	Carnation	WA	US
Yuan; Yun-Qi	Redmond	WA	US
Guu; Yi-Wen	Bellevue	WA	US
George; Samuel John	San Mateo	CA	US
Hoffman; William Raymond	Berkeley	CA	US
Jacobs; Jay Christopher	Danville	CA	US
Steckler; Paul Andrew	Redmond	WA	US
Hsueh; Walter C.	San Jose	CA	US
Keil; Kendall D.	Bothell	WA	US
Gopal; Burra	Redmond	WA	US
White; Steven D.	Bellevue	WA	US
Leach; Paul J.	Seattle	WA	US
Ward; Richard B.	Redmond	WA	US
Smoot; Philip Michael	San Francisco	CA	US
Fang; Lijiang	Sammamish	WA	US
Taylor; Michael B.	Seattle	WA	US
Kannan; Suresh	Redmond	WA	US

Wu; Winnie C.   Bellevue   WA   US

US-CL-CURRENT: 707/10

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 2.   Document ID: US 20050193037 A1

Using default format because multiple data bases are involved.

L8: Entry 2 of 9   File: PGPB   Sep 1, 2005

PGPUB-DOCUMENT-NUMBER: 20050193037
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050193037 A1

TITLE: Peer-to-peer <u>replication</u> member initialization and <u>deactivation</u>

PUBLICATION-DATE: September 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Adiba, Nicolas G.	San Jose	CA	US
Anaya, Jaime F.	San Jose	CA	US
Hamel, Elizabeth B.	Morgan Hill	CA	US
Lau, Yat On	San Jose	CA	US
Li, Siqun	San Jose	CA	US
Lindsay, Bruce G.	San Jose	CA	US

US-CL-CURRENT: 707/203

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 3.   Document ID: US 20050132059 A1

Using default format because multiple data bases are involved.

L8: Entry 3 of 9   File: PGPB   Jun 16, 2005

PGPUB-DOCUMENT-NUMBER: 20050132059
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050132059 A1

TITLE: Method and apparatus for automatically disseminating information over a
network

PUBLICATION-DATE: June 16, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Campbell, R. David L.	Seattle	WA	US
Faragher-Horwell, Ronald	Seattle	WA	US

US-CL-CURRENT: 709/227

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 4. Document ID: US 20050132035 A1

Using default format because multiple data bases are involved.

L8: Entry 4 of 9   File: PGPB   Jun 16, 2005

PGPUB-DOCUMENT-NUMBER: 20050132035
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050132035 A1

TITLE: Method and apparatus for automatically disseminating information over a network

PUBLICATION-DATE: June 16, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Campbell, R. David L.	Seattle	WA	US
Faragher-Horwell, Roland	Seattle	WA	US

US-CL-CURRENT: 709/223

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 5. Document ID: US 20040128353 A1

Using default format because multiple data bases are involved.

L8: Entry 5 of 9   File: PGPB   Jul 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040128353
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040128353 A1

TITLE: Creating dynamic interactive alert messages based on extensible document definitions

PUBLICATION-DATE: July 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Goodman, Brian D.	New York	NY	US
Jania, Frank	Norwalk	CT	US

US-CL-CURRENT: 709/204

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 6.   Document ID: US 20030131073 A1
Using default format because multiple data bases are involved.
```
L8: Entry 6 of 9                        File: PGPB           Jul 10, 2003
```

```
PGPUB-DOCUMENT-NUMBER: 20030131073
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030131073 A1
```

```
TITLE: Schema-based services for identity-based data access
```

```
PUBLICATION-DATE: July 10, 2003
```

```
INVENTOR-INFORMATION:
```

NAME	CITY	STATE	COUNTRY
Lucovsky, Mark H.	Sammamish	WA	US
Pierce, Shaun Douglas	Sammamish	WA	US
White, Steven D.	Bellevue	WA	US
Movva, Ramu	Issaquah	WA	US
Kalki, Jagadeesh	Redmond	WA	US
Auerbach, David Benjamin	Seattle	WA	US
Ford, Peter Sewall	Carnation	WA	US
Jacobs, Jay Christopher	Danville	CA	US
Steckler, Paul Andrew	Redmond	WA	US
Hsueh, Walter C.	San Jose	CA	US
Keil, Kendall D.	Bothell	WA	US
Gopal, Burra	Redmond	WA	US
Kannan, Suresh	Redmond	WA	US
Guu, Yi-Wen	Bellevue	WA	US
George, Samuel John	San Mateo	CA	US
Hoffman, William Raymond	Berkeley	CA	US
Smoot, Philip Michael	San Francisco	CA	US
Fang, Lijiang	Sammamish	WA	US
Taylor, Michael B.	Seattle	WA	US
Wu, Winnie C.	Bellevue	WA	US
Leach, Paul J.	Seattle	WA	US
Ward, Richard B.	Redmond	WA	US

```
US-CL-CURRENT: 709/219
```

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D. |

☐ 7.   Document ID: US 20010054099 A1
Using default format because multiple data bases are involved.
```
L8: Entry 7 of 9                        File: PGPB           Dec 20, 2001
```

```
PGPUB-DOCUMENT-NUMBER: 20010054099
PGPUB-FILING-TYPE: new
```

DOCUMENT-IDENTIFIER: US 20010054099 A1

TITLE: Method and apparatus for automatically disseminating information over a
network

PUBLICATION-DATE: December 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Campbell, R. David L.	Seattle	WA	US
Faragher-Horwell, Roland	Seattle	WA	US

US-CL-CURRENT: 709/224; 709/203

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐   8.   Document ID: US 20010020250 A1
Using default format because multiple data bases are involved.
    L8: Entry 8 of 9   File: PGPB   Sep 6, 2001

PGPUB-DOCUMENT-NUMBER: 20010020250
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010020250 A1

TITLE: Method and apparatus for automatically disseminating information over a
network

PUBLICATION-DATE: September 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Campbell, R. David L.	Seattle	WA	US
Faragher-Horwell, Roland	Seattle	WA	US

US-CL-CURRENT: 709/224; 709/238

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐   9.   Document ID: US 6240451 B1
    L8: Entry 9 of 9   File: USPT   May 29, 2001

US-PAT-NO: 6240451
DOCUMENT-IDENTIFIER: US 6240451 B1
** See image for **Certificate of Correction** **

TITLE: Method and apparatus for automatically disseminating information over a
network

DATE-ISSUED: May 29, 2001

```
INVENTOR-INFORMATION:
NAME                                    CITY        STATE    ZIP CODE     COUNTRY
Campbell; R. David L.                   Seattle     WA
Faragher-Horwell; Roland                Seattle     WA
```

US-CL-CURRENT: <u>709</u>/<u>224</u>; <u>709</u>/<u>248</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |

Terms	Documents
(((subscription$ or subscrib$) same (add$ or insert$) same (member$ or group$)) and (send$ or transmit$ or replicat$ or distribut$ or synchroniz$ or asynchroniz$) and (activat$ or deactiv$) and (send$ same list$ same subscription with information)and (validat$ with initiator or agent))	9

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1 Undecidable optimization problems for database logic programs   ▭
Haim Gaifman, Harry Mairson, Yehoshua Sagiv, Moshe Y. Vardi
July 1993 **Journal of the ACM (JACM)**, Volume 40 Issue 3
Publisher: ACM Press
Full text available: 📄 pdf(2.22 MB)   Additional Information: full citation, references, citings, index terms

Keywords: Datalog, boundedness, query language, recursion

2 Ranking: Boolean + ranking: querying a database by k-constrained optimization   ▭
Zhen Zhang, Seung-won Hwang, Kevin Chen-Chuan Chang, Min Wang, Christian A. Lang, Yuan-chi Chang
June 2006 **Proceedings of the 2006 ACM SIGMOD international conference on Management of data SIGMOD '06**
Publisher: ACM Press
Full text available: 📄 pdf(316.14 KB)   Additional Information: full citation, abstract, references, index terms

The wide spread of databases for managing structured data, compounded with the expanded reach of the Internet, has brought forward interesting *data retrieval* and *analysis* scenarios to RDBMS. In such settings, queries often take the form of k-*constrained optimization*, with a Boolean constraint and a numeric optimization expression as the goal function, retrieving only the top-k tuples. This paper proposes the concept of supporting such queries, as their nature i ...

Keywords: A* search, constrained optimization, index, query processing, top-k query

3 Intermedia: A case study of the differences between relational and object-oriented database systems   ▭
Karen E. Smith, Stanley B. Zdonik
December 1987 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications OOPSLA '87**, Volume 22 Issue 12
Publisher: ACM Press
Full text available: 📄 pdf(1.57 MB)   Additional Information: full citation, abstract, references, citings, index

terms

This paper compares two approaches to meeting the data handling requirements of Intermedia, a hypermedia system developed at the Institute for Research in Information and Scholarship at Brown University. Intermedia, though written using an object-oriented programming language, relies on a traditional relational database management system for data storage and retrieval. We examine the ramifications of replacing the relational database with an object-oriented database. We begin by des ...

4 Using Applications of Data Versioning in Database Application Development
Ramkrishna Chatterjee, Gopalan Arun, Sanjay Agarwal, Ben Speckhard, Ramesh Vasudevan
May 2004 **Proceedings of the 26th International Conference on Software Engineering ICSE '04**
Publisher: IEEE Computer Society
Full text available: pdf(166.57 KB)   Additional Information: full citation, abstract, citings, index terms

Database applications such as enterprise resource planning systems and customer relationship management systems are widely used software systems. Development and testing of database applications is difficult because the program execution depends on the persistent state stored in the database. In this paper we show that how versioning of the persistent data stored in the database can solve some critical problems in the development and testing of database applications can be solved by vers ...

5 Conceptual learning in database design
Yannis E. Ionnidis, Tomas Saulys, Andrew J. Whitsitt
July 1992 **ACM Transactions on Information Systems (TOIS)**, Volume 10 Issue 3
Publisher: ACM Press
Full text available: pdf(2.00 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper examines the idea of incorporating machine learning algorithms into a database system for monitoring its stream of incoming queries and generating hierarchies with the most important concepts expressed in those queries. The goal is for these hierarchies to provide valuable input to the database administrator for dynamically modifying the physical and external schemas of a database for improved system performance and user productivity. The criteria for choosing the appropriate lea ...

Keywords: /UNIMEM, COBWEB, adaptive database systems, learning from examples

6 Databases: ODMG extension of composite objects in OODBMS: a proposal
Xiaoyan Lu, J. Wenny Rahayu, David Taniar
February 2002 **Proceedings of the Fortieth International Conference on Tools Pacific: Objects for internet, mobile and embedded applications CRPIT '02**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(859.97 KB)   Additional Information: full citation, abstract, references, index terms

This paper proposes an extension of ODMG (Object Data Management Group) standard for the Object-Oriented Database Management Systems (OODBMS). The extension concentrates on composite objects, which provides a new paradigm, and also improves traditional OODBMS to meet the needs arising from the aggregation hierarchy. Currently in ODMG, the semantic of the aggregation relationship is explored at the modelling stage and is described in natural language. To formally specify and verify an aggregation ...

Keywords: ODL, ODMG, OIF, OODBMS, aggregation hierarchy, composite objects

7

A flexible and recoverable client/server database event notification system

Eric N. Hanson, I.-Cheng Chen, Roxana Dastur, Kurt Engel, Vijay Ramaswamy, Wendy Tan, Chun Xu

February 1998 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 7 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(105.38 KB)   Additional Information: full citation, abstract, index terms

> A software architecture is presented that allows client application programs to interact with a DBMS server in a flexible and powerful way, using either direct, volatile messages, or messages sent via recoverable queues. Normal requests from clients to the server and replies from the server to clients can be transmitted using direct or recoverable messages. In addition, an application event notification mechanism is provided, whereby client applications running anywhere on the network can regist ...

8 Automatic model initialization for real-time decision support

Lotfi K. Gaafar, Javeed Shaik

December 1993 **Proceedings of the 25th conference on Winter simulation**

Publisher: ACM Press

Full text available: pdf(541.56 KB)   Additional Information: full citation, references, citings

9 Reference-based indexing of sequence databases

Jayendra Venkateswaran, Deepak Lachwani, Tamer Kahveci, Christopher Jermaine

September 2006 **Proceedings of the 32nd international conference on Very large data bases VLDB '06**

Publisher: VLDB Endowment

Full text available: pdf(2.24 MB)   Additional Information: full citation, abstract, references, index terms

> We consider the problem of similarity search in a very large sequence database with edit distance as the similarity measure. Given limited main memory, our goal is to develop a reference-based index that reduces the number of costly edit distance computations in order to answer a query. The idea in reference-based indexing is to select a small set of reference sequences that serve as a surrogate for the other sequences in the database. We consider two novel strategies for selecting references as ...

10 Beyond schema evolution to database reorganization

Barbara Staudt Lerner, A. Nico Habermann

September 1990 **ACM SIGPLAN Notices , Proceedings of the European conference on object-oriented programming on Object-oriented programming systems, languages, and applications OOPSLA/ECOOP '90**, Volume 25 Issue 10

Publisher: ACM Press

Full text available: pdf(979.63 KB)   Additional Information: full citation, abstract, references, citings, index terms

> While the contents of databases can be easily changed, their organization is typically extremely rigid. Some databases relax the rigidity of database organization somewhat by supporting simple changes to individual schemas. As described in this paper, OTGen supports not only more complex schema changes, but also database reorganization. A database administrator uses a declarative notation to describe mappings between objects created with old versions of schemas and their corresponding repre ...

11 Loading databases using dataflow parallelism

Tom Barclay, Robert Barnes, Jim Gray, Prakash Sundaresan

December 1994 **ACM SIGMOD Record**, Volume 23 Issue 4

Publisher: ACM Press

Full text available: ▣ pdf(1.49 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

This paper describes a parallel database load prototype for Digital's Rdb database product. The prototype takes a dataflow approach to database parallelism. It includes an *explorer* that discovers and records the cluster configuration in a database, a *client* CUI interface that gathers the load job description from the user and from the Rdb catalogs, and an *optimizer* that picks the best parallel execution plan and records it in a *web* data structure. The web describes th ...

12 <u>Hierarchical hippocratic databases with minimal disclosure for virtual organizations</u>   ▭
Fabio Massacci, John Mylopoulos, Nicola Zannone
September 2006 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 15 Issue 4
Publisher: Springer-Verlag New York, Inc.
Full text available: ▣ pdf(705.84 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>

The protection of customer privacy is a fundamental issue in today's corporate marketing strategies. Not surprisingly, many research efforts have proposed new privacy-aware technologies. Among them, Hippocratic databases offer mechanisms for enforcing privacy rules in database systems for inter-organizational business processes (also known as virtual organizations). This paper extends these mechanisms to allow for hierarchical purposes, distributed authorizations and minimal disclosure su ...

Keywords: Access control, Delegation, Information security, Minimal disclosure, Privacy protection, Private data management, Virtual organizations

13 <u>Optimization of join operations in horizontally partitioned database systems</u>   ▭
Arie Segev
March 1986 **ACM Transactions on Database Systems (TODS)**, Volume 11 Issue 1
Publisher: ACM Press
Full text available: ▣ pdf(1.74 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

This paper analyzes the problem of joining two horizontally partitioned relations in a distributed database system. Two types of semijoin strategies are introduced, local and remote. Local semijoins are performed at the site of the restricted relation (or fragment), and remote semijoins can be performed at an arbitrary site. A mathematical model of a semijoin strategy for the case of remote semijoins is developed, and lower bounding and heuristic procedures are proposed. The results of comp ...

14 <u>Efficient availability mechanisms in distributed database systems</u>   ▭
Bharat Bhargava, Abdelsalam Helal
December 1993 **Proceedings of the second international conference on Information and knowledge management**
Publisher: ACM Press
Full text available: ▣ pdf(1.06 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

15 <u>Consistency and orderability: semantics-based correctness criteria for databases</u>   ▭
Divyakant Agrawal, Amr El Abbadi, Ambuj K. Singh
September 1993 **ACM Transactions on Database Systems (TODS)**, Volume 18 Issue 3
Publisher: ACM Press
Full text available: ▣ pdf(1.92 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

The semantics of objects and transactions in database systems are investigated. User-defined predicates called consistency assertions are used to specify user programs. Three new correctness criteria are proposed. The first correctness criterion consistency is based solely on the users' specifications and admit nonserializable executions that are acceptable to the users. Integrity constraints of the database are maintained through consistency assertions. Th ...

Keywords: concurrency control, object-oriented databases, semantics, serializability theory

16 Timer-driven database triggers and alerters: semantics and a challenge

Eric N. Hanson, Lloyd X. Noronha
December 1999 **ACM SIGMOD Record**, Volume 28 Issue 4
Publisher: ACM Press
Full text available: pdf(534.69 KB)   Additional Information: full citation, abstract, citings, index terms

This paper proposes a simple model for a timer-driven triggering and alerting system. Such a system can be used with relational and object-relational databases systems. Timer-driven trigger systems have a number of advantages over traditional trigger systems that test trigger conditions and run trigger actions in response to update events. They are relatively easy to implement since they can be built using a middleware program that simply runs SQL statements against a DBMS. Also, they can c ...

17 Integrating reliable memory in databases

Wee Teck Ng, Peter M. Chen
August 1998 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 7 Issue 3
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(123.18 KB)   Additional Information: full citation, abstract, index terms

Recent results in the Rio project at the University of Michigan show that it is possible to create an area of main memory that is as safe as disk from operating system crashes. This paper explores how to integrate the reliable memory provided by the Rio file cache into a database system. Prior studies have analyzed the performance benefits of reliable memory; we focus instead on how different designs affect reliability. We propose three designs for integrating reliable memory into databases: non ...

Keywords: Main memory database system (MMDB), Recovery, Reliability

18 Types and persistence in database programming languages

Malcolm P. Atkinson, O. Peter Buneman
June 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 2
Publisher: ACM Press

Full text available: pdf(7.91 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Traditionally, the interface between a programming language and a database has either been through a set of relatively low-level subroutine calls, or it has required some form of embedding of one language in another. Recently, the necessity of integrating database and programming language techniques has received some long-overdue recognition. In response, a number of attempts have been made to construct programming languages with completely integrated database management systems. These lang ...

19

Decidable optimization problems for database logic programs

Stavros Cosmadakis, Haim Gaifman, Paris Kanellakis, Moshe Vardi
January 1988 **Proceedings of the twentieth annual ACM symposium on Theory of computing**
Publisher: ACM Press

Full text available: pdf(1.43 MB)   Additional Information: full citation, abstract, references, citings, index terms

Datalog is the language of logic programs without function symbols. It is used as a database query language. If it is possible to eliminate recursion from a Datalog program &Pgr;, then &Pgr; is said to be bounded. It is known that the problem of deciding whether a given Datalog program is bounded is undecidable, even for binary programs. We show here that boundedness is decidable for monadic programs, i.e., programs where t ...

20 Efficient discovery of error-tolerant frequent itemsets in high dimensions

Cheng Yang, Usama Fayyad, Paul S. Bradley
August 2001 **Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining**
Publisher: ACM Press

Full text available: pdf(1.11 MB)   Additional Information: full citation, abstract, references, citings, index terms

We present a generalization of frequent itemsets allowing for the notion of errors in the itemset definition. We motivate the problem and present an efficient algorithm that identifies error-tolerant frequent clusters of items in transactional data (customer-purchase data, web browsing data, text, etc.). The algorithm exploits sparseness of the underlying data to find large groups of items that are correlated over database records (rows). The notion of transaction coverage allows us to extend th ...

Keywords: Error-tolerant frequent itemset, clustering, collaborative filtering, high dimensions, query selectivity estimation

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